SECTION 7

LIGHTING

07.A GENERAL

07.A.01 While work is in progress, offices, facilities, accessways, working areas, construction roads, etc., shall be lighted by at least the minimum light intensities specified in Table 7-1.

<u>07.A.02 Office lighting shall be in accordance with ANSI/</u>
<u>Illuminating Engineering Society of North America (IESNA) RP-1.</u>

<u>07.A.03</u> Roadway lighting shall be in accordance with ANSI/IESNA RP-8.

<u>07.A.04 Marine lighting shall be in accordance with ANSI/IESNA RP-12.</u>

07.A.05 Means of egress.

- a. Means of egress shall be illuminated, with emergency and non-emergency lighting, to provide a minimum of 1 footcandle (fc) (lumens per square foot (lm/ft²)) (11 lux (lx), measured at the floor. > Reference NFPA 101.
- b. The illumination shall be arranged so that the failure of any single lighting unit, including the burning out of an electric bulb, will not leave any area in total darkness.

07.A.06 Lamps and fixtures will be guarded and secured to preclude injury to personnel. Open fluorescent fixtures will be provided with wire guards, lenses, tube guards and locks, or safety sockets that require force in the horizontal axis to remove the lamp.

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07.A.07 Lamps for general illumination shall be protected from accidental contact or breakage. Protection shall be provided by elevation of at least 7 ft (2.1 m) from normal working surface or suitable fixture or lamp holder with a guard.

TABLE 7-1
MINIMUM LIGHTING REQUIREMENTS

Facility or function	Illuminance – lx (lm/ft²)		
Accessways			
- general indoor	55 (5)		
- general outdoor	33 (3)		
- exitways, walkways, ladders, stairs	110 (10)		
Administrative areas (offices, drafting and	540 (50)		
meeting rooms, etc.)			
Chemical laboratories	540 (50)		
Construction areas			
- general indoor	55 (5)		
- general outdoor	33 (3)		
- tunnels and general underground work	55 (5)		
areas (minimum 110 <u>lx</u> required at			
tunnel and shaft heading during			
drilling, mucking, and scaling)			
Conveyor routes	110 (10)		
Docks and loading platforms	33 (3)		
Elevators, freight and passenger	215 (20)		
First-aid stations and infirmaries	325 (30)		
Maintenance/operating areas/shops			
- vehicle maintenance shop	325 (30)		
- carpentry shop	110 (10)		
- outdoors field maintenance area	55 (5)		
- refueling area, outdoors	55 (5)		
- shops, fine detail work	540 (50)		
- shops, medium detail work	325 (30)		
- welding shop	325 (30)		
Mechanical/electrical equipment rooms	110 (10)		
Parking areas	33 (3)		
Toilets, wash, and dressing rooms	110 (10)		
Visitor areas	215 (20)		
Warehouses and storage rooms/areas			
- indoor stockroom, active/bulk storage	` ,		
- indoor stockroom, inactive	55 (5)		
- indoor rack storage	270 (25)		
- outdoor storage	33 (3)		
Work areas – general (not listed above)	325 (30)		